

File 350:Derwent World . . . 1963-1980/UD=9708

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XRAM Acc No: C80-C31642

3'-pyrophosphoric acid nucleotide cpds. - obtd. by reacting nucleoside and/or nucleotide with pyrophosphoric acid donor such as ATP; ADENOSINE TRI PHOSPHATE

Patent Assignee: (SAOC ) SANRAKU OCEAN

Number of Patents: 001

Patent Family:

CC Number	Kind	Date	Week
JP 55038324	A	800317	8018 (Basic)

Priority Data (CC No Date): JP 78111456 (780911)

Abstract (Basic): Pyrophosphoric acid type nucleotide cpd. of formula NmX pp (where N is such a structure that H or OH of hexose, riboflavin, choline or dihydronicotinic amide-riboside is linked to phosphoric acid at 5'-position of X, or that OH at 3'- or 5' position of nucleoside, nucleotide, dinucleotide or oligonucleotide or its methyl deriv. is linked to phosphoric acid at 5'-position of X, m is phosphoric acid radical linked at 5'-position of X, X is nucleoside or its methyl deriv. and pp is pyrophosphoric acid linked to 3'-position of X).

The cpd. is prepd. by reacting a cpd. of NmX with pyrophosphoric acid donor such as ATP, adenosine pentaphosphate, deoxyadenosine triphosphate, etc. in the presence of buffer soln. of pH 7-10, EDTA-sodium and divalent metal ion such as Mg or Co. with the use of nucleotide pyrophosphoric acid transferase at 30-45 degrees C. The cpd. is useful as accelerator for growth of cell of animal, anti-leukemia agent, etc.

File Segment: CPI

Derwent Class: B03; B02;

Int Pat Class: C07H-019/10; C12P-019/30